INSTALLATION and MAINTENANCE INSTRUCTIONS **UE32 UNIVERSAL CABLE REEL-DIRECT DRIVE**

All units are provided with right hand rotation unless otherwise specified. This means that cable is pulled off spool top left or bottom right (spool rotates clockwise to wind cable) when viewing spring end of reel. See diagram on parts page.

Clock-type springs provide power for automatic cable take-up. Spring must be pretensioned at time of installation to insure that tension is applied to cable at all times. A tension adjustment spanner wrench is provided with each reel.

WARNING

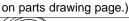
Some reels with large or multiple springs are equipped with a ratcheted adjustment wrench. Follow separate instructions for its use. Failure to use ratcheted wrench, on reels so equipped, could result in serious personal injury.

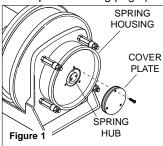
WARNING

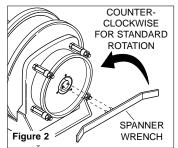
Do not attempt to relieve spring tension using spanner wrench. Doing so may result in personal injury.

INSTALLATION

- 1. Insure that machinery to be serviced by reel is at position closest to reel.
- 2. Securely mount reel in desired position using 1/2"(M12) bolts. Be sure spool is aligned with cable run.
- 3. Position optional cable guide, if reel is so equipped. See COMPONENT REFERENCE DRAWING.
- 4. Connect free end of cable to junction box on machine or adjust cable stop so that desired length of cable extends from reel.
- 5. Remove cover plate on spring housing to expose shaft and spring hub. (See Figure 1).
- 6. Insert spanner wrench into holes in spring hub (Fig 2). Rotate wrench counterclockwise (for standard rotation). Number of 360° turns should match last digit in model number on serial plate. If model number includes an "R". reel is reverse rotation and wrench must be rotated clockwise. (See "TO DETERMINE ROTATION OF REEL"







A CAUTION

Do not exceed number of turns indicated on serial plate. Over-tensioning can cause a broken spring, sheared shaft or other damage.

NOTE: If reel is equipped with ratcheted adjustment wrench, follow instructions on separate sheet.

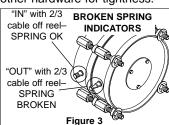
NOTE: On reels containing more than one spring, the hubs are connected at the factory. Therefore, by tightening the outer spring, the inside spring(s) will be tightened.

7. Remove collector cover and connect individual supply conductors to collector terminals. See ELECTRICAL CONNECTIONS diagram, on back page.

MAINTENANCE

Periodically: A. Use compressed air to clean collector assembly and inside of collector housing. Inspect collector assembly for brush wear and pitted slip rings.

B. Inspect cable for wear and check mounting bolts and other hardware for tightness.



C. Check for broken springs by pulling about 2/3 cable off reel and observing "Broken Spring Indicators" on sides of spring canisters. See Fig. 3.

NOTE: Bearings and springs are prelubricated and require no periodic maintenance.

SPRING REPLACEMENT

WARNING

Do not attempt to remove spring from its housing. Clocktype springs can be dangerous to handle. Removal of spring from housing could result in personal injury.

The unique SAFETYCHANGE® spring motor consists of a spring and hub sealed within a housing. A replacement spring is supplied sealed in its housing and the old unit should be discarded completely.

- 1. Turn off all electric power.
- 2. Disconnect cable from machine junction box.
- 3. Wind all cable onto reel to relieve all spring tension.
- 4. Remove inspection cover from face of spring housing.
- 5. Rotate spool clockwise and observe inner shaft. Shaft should rotate clockwise and hub (with spring attached) should remain stationary.

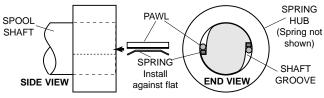
NOTE: Do not attempt to remove spring if resistance is met or hub tends to rotate with shaft.

Continue to rotate spool and strike end of shaft several sharp blows with a lead hammer or rubber mallet until shaft rotates freely and hub remains stationary.

- 6. Remove (4) nuts which secure spring motor(s) to frame.
- 7. Slide spring motor(s) off shaft and discard.

NOTE: On multi-spring reels, be sure to remove and save dowel pins which connect one spring hub with another. Also remove snap rings on shaft between reel housings.

8. Install replacement spring motor(s), pawls and pawl springs. **NOTE:** Pawl springs must be located between the pawls and the deepest section of the shaft grooves. Make sure that pawls and pawl springs are inserted flush with ends of shaft and hub or they may rub against inspection cover.



- 9. Tighten nuts (and extension bolts) securing spring housing(s) to reel frame.
- 10. Connect free end of cable to junction box on machine or adjust cord stop so that desired length of cord extends from reel.
- 11. Tension spring with spanner wrench. Refer to INSTALLATION section.
- 12. Replace inspection cover.

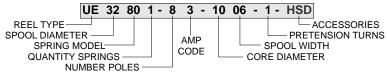


DIRECT DRIVE UE-32 UNIVERSAL CABLE REEL REPLACEMENT PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY.
1	042019	Vertical Frame Assy., Swivel Side	1
2	012140	Housing, 2" Bore Bearing	2
3	103837	Ball Bearing, 2" Bore	1
4	038424	Flat Washer, M8	9
5	028268	ESNA Lock Nut, M8-1.25	8
6	042009	Vertical Frame Assy., Drive Side	1
7	119114	Housing, 1.75" Bore Bearing	2
8	103823	Ball Bearing, 1.75" Bore	1
9	042030	Spool Support Hub, Drive Side	1
10	012137	Stub Shaft Drive Pin	1
11	118322	Retaining Ring	1
12	042029	Spool Disk, U32	2
13		Wrapper Assy. Kit, 6"w, 10"–12"dia. core gments & hardware)	1
13	04271002 04271003	Wrapper Assy. Kit, 8"w, 10"-12"dia. core Wrapper Assy. Kit, 10"w, 10"-12"dia. core	1 1
13	04271003	Wrapper Assy. Kit, 10 w, 10 –12 dia. core Wrapper Assy. Kit, 12"w, 10"–12"dia. core	1
13	04271005	Wrapper Assy. Kit, 14"w, 10"-12"dia. core	1
13	04271006 04271007	Wrapper Assy. Kit, 6"w, 14"-18"dia. core Wrapper Assy. Kit, 8"w, 14"-18"dia. core	1 1
13	04271008	Wrapper Assy. Kit, 10"w, 14"-18"dia. core	1
13	04271009	Wrapper Assy. Kit, 12"w, 14"–18"dia. core	1 1
13 13	04271010 04271011	Wrapper Assy. Kit, 14"w, 14"-18"dia. core Wrapper Assy. Kit, 6"w, 20"-26"dia. core	1
13	04271012	Wrapper Assy. Kit, 8"w, 20"-26"dia. core	1
13	04271013 04271014	Wrapper Assy. Kit, 10"w, 20"–26"dia. core Wrapper Assy. Kit, 12"w, 20"–26"dia. core	1 1
13	04271015	Wrapper Assy. Kit, 14"w, 20"–26"dia. core	1
14	042068	Spool Hub, Collector Side	1
15	Consult Factory &	Cable Clamp/Connector Kit (Includes Cable Clamp, Cable Connector Reducer, if required, sized for cable diameter)	1
16	040784	Collector Entrance	1
17	101652	Pipe Plug	1
18	118220	Gasket, Collector Entrance	1
19	012409	Collector Cover Kit (8" long) (Includes seal ring)	1
19	012410	Collector Cover Kit (10.5" long)	1
19 19	012411 012412	Collector Cover Kit (13" long) Collector Cover Kit (15.5" long)	1 1
19	012413	Collector Cover Kit (20.5" long)	1
19	012414	Collector Cover Kit (28.5" long)	1
20	012458	Seal Ring Only	1
21	042067	Collector Drive Stop	1
22	028138	Lockwasher, M10	4
23 24	028131 04272201	Hex Hd. Cap Screw, M10–1.5 x 20L Bottom Base Kit, 6" wide Wrapper	4 1
24	04272202	(Includes mounting hardware) Bottom Base Kit, 8" wide Wrapper	1
24	04272202	Bottom Base Kit, 10" wide Wrapper	1
24 24	04272204 04272205	Bottom Base Kit, 12" wide Wrapper Bottom Base Kit, 14" wide Wrapper	1 1
25	042152	Stub Shaft, 1002, Direct, Standard Rotation	1
25 25	042153 042156	Stub Shaft, 1001, Direct, Standard Rotation Stub Shaft, 802/622/752, Direct, Std. Rot.	1 1
25	042157	Stub Shaft, 801/621/751, Direct, Std. Rot.	1
25	042554	Stub Shaft, 351, Direct, Standard Rotation	1
25	042160	Stub Shaft, 1002, Direct, Reverse Rotation Stub Shaft, 1001, Direct, Reverse Rotation	1 1
25 25	042161 042164	Stub Shaft, 802/622/752, Direct, Rev. Rot.	1
25	042165	Stub Shaft, 801/621/751, Direct, Rev. Rot.	1
25	042566	Stub Shaft, 351, Direct, Reverse Rotation	1

ITEM	PART NO.	DESCRIPTION	QTY.
26	012425 (Include	Pawl Kit (35 Spring) es 2 pawls & springs)	AR
26 26	012426 012427	Pawl Kit (62, 75 & 80 Springs) Pawl Kit (100 Spring)	AR AR
27	031484	Hex Hd. Cap Screw, M12-1.75 x 35L	4
28	025942	Lockwasher, M12	4
29	025941	Hex Nut, M12-1.75	4
30	042555	Stand-off, 35 Springs	AR
30 30	042183 042182	Stand-off, 62, 75 & 80 Springs \Stand-off, 100 Spring\	AR ∖AR
31	029159	\Flat Washer, M12	4
32	028502	ESNA Nut, M12-1.75	4
33	042727 (Includes	Spring Motor Kit, 35, Standard Rotation items 20, 27, 28, 29, & 30)	AR
33	042725	Spring Motor Kit, 62, Standard Rotation	AR
33	042726	Spring Motor Kit, 75, Standard Rotation	AR
33 33	042724 042723	Spring Motor Kit, 80, Standard Rotation Spring Motor Kit, 100, Standard Rotation	AR AR
33	042732	Spring Motor Kit, 35, Reverse Rotation	AR
33	042730	Spring Motor Kit, 62, Reverse Rotation	AR
33	042731	Spring Motor Kit, 75, Reverse Rotation	AR
33	042729	Spring Motor Kit, 80, Reverse Rotation	AR
33 34	042728 G51–23	Spring Motor Kit, 100, Reverse Rotation Gasket, Hub Cover	AR 1
35	G27-42	Hub Cover, Springs	1
36	101220	Screw, #8-32 x 0.25" Lg	3
37	021762	Hub Lock Pin Kit (100 Springs)	1
37	021761	two pins) Hub Lock Pin Kit (All Other Springs)	1
38	012285	Collector Assembly, 2 Pole, 35 Amp	1
38	012286	Collector Assembly, 3 Pole, 35 Amp	1
38	012287	Collector Assembly, 4 Pole, 35 Amp	1
38 38	012288 012289	Collector Assembly, 6 Pole, 35 Amp	1 1
38	012209	Collector Assembly, 8 Pole, 35 Amp Collector Assembly, 10 Pole, 35 Amp	1
38	012291	Collector Assembly, 12 Pole, 35 Amp	1
38	012292	Collector Assembly, 14 Pole, 35 Amp	1
38	012293	Collector Assembly, 16 Pole, 35 Amp	1
38 38	012294 012295	Collector Assembly, 20 Pole, 35 Amp	1 1
38	012295	Collector Assembly, 24 Pole, 35 Amp Collector Assembly, 30 Pole, 35 Amp	1
38	012297	Collector Assembly, 36 Pole, 35 Amp	1
38	012298	Collector Assembly, 2 Pole, 75 Amp	1
38	012299	Collector Assembly, 3 Pole, 75 Amp	1
38 38	012300 012376	Collector Assembly, 4 Pole, 75 Amp Collector Assembly, 6 Pole, 75 Amp	1 1
38	037194	Collector Assembly, 2 Pole, 125 Amp	1
38	012377	Collector Assembly, 8 Pole, 75 Amp	1
38	037294	Collector Assembly, 3 Pole, 125 Amp	1
38	037295	Collector Assembly, 4 Pole, 125 Amp	1
38 38	012304 012381	Collector Assembly, 2 Pole, 200 Amp Collector Assembly, 3 Pole, 200 Amp	1 1
38	012382	Collector Assembly, 4 Pole, 200 Amp	1
38	012383	Collector Assembly, 6 Pole, 200 Amp	1
38	012384	Collector Assembly, 8 Pole, 200 Amp	1
39	012440	Brush Kit (35 Amp)	ar
20		es 4 brushes and 4 fingers)	
39 39	012441 012443	Brush Kit (75 Amp) Brush Kit (125 Amp/200 Amp)	ar ar
40	042733	Spanner Wrench (35–80 Springs)	1
40	(Includes 042734	s mounting hardware) Spanner Wrench (100 Springs)	1
41	042735	Ratchet Wrench Kit (35–80 Springs)	1
41		s mounting hardware) Ratchet Wrench Kit (100 Springs)	1
+1	072730	rational wienon file (100 Springs)	'

MODEL NUMBER STRUCTURE

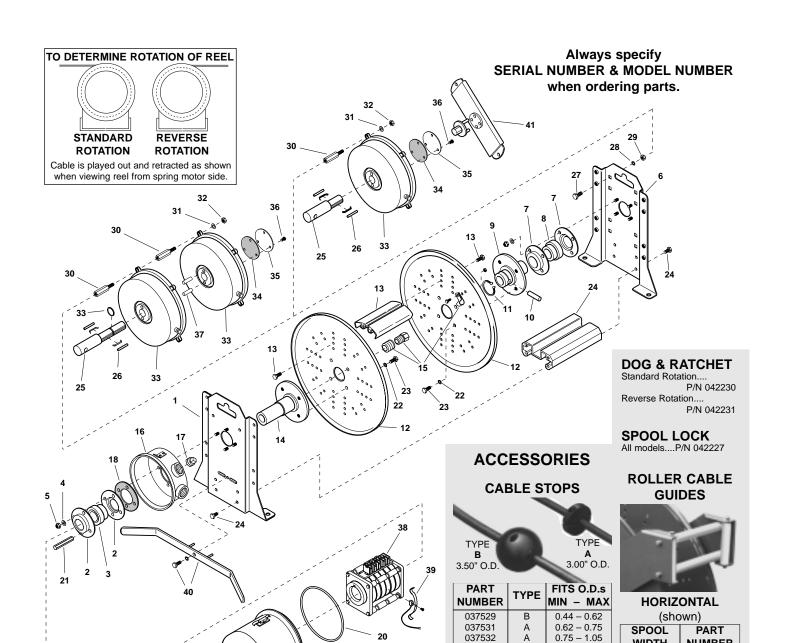


AMPACITY CODE

CODE	AMPS
3	35
7	75
12	125
20	200

ACCESSORY CODE

(See sext page for accessories)
340° Pivot Base = P
Dog & Ratchet (ratchet lock) = D
Limit Switch = L
Horizontal Roller Guide = H
Vertical Roller Guide = V
Spool Lock = S



037532

037533

037535

037536

037537

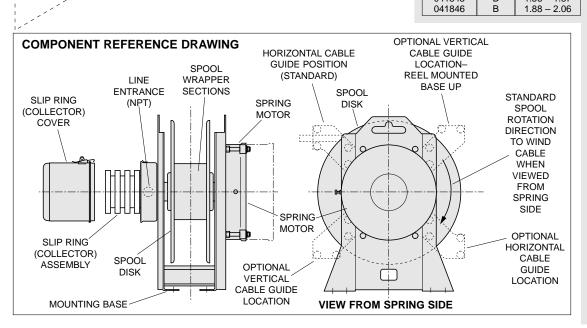
041845

В

В

В

В



VERTICAL

NUMBER

042210

042211

042212

042213

042214

WIDTH

8"

10"

12"

14"

1.06 - 1.30

0.75 - 1.05

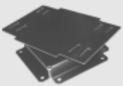
1.06 - 1.38

1.39 - 1.55

1.56 - 1.87

SPOOL	PART
WIDTH	NUMBER
6"	042275
8"	042276
10"	042277
12"	042278
14"	042279

340° PIVOT BASE



SPOOL WIDTH	PART NUMBER
4"-6"	042284
8"-10"	042285
12"-14"	042286

CABLE REMOVAL

Use the following procedure to remove worn or damaged cable from reel prior to installation of new cable.

A CAUTION

Failure to relieve all spring tension prior to removing cable could result in damage to equipment or personal injury. Follow instructions carefully.

- Move machine serviced by reel to a position closest to reel. Springs will still be under pre-tension at this point.
- 2. Turn off all electric power.
- Lock spool to prevent turning using either a spool lock mechanism or by tying off.
- 4. Disconnect cable from machine junction box.
- Grip spool by hand and carefully release spool lock or tie. Slowly unwind remaining tension.
- 6. Again lock or tie spool to prevent rotation.
- Remove cable from spool. Loosen cable clamp and water-tight connector. Disconnect conductors from slip ring and remove cable.
- 8. Install new cable following instruction at right.

CABLE INSTALLATION

Use the following procedure to replace cable or if reel was ordered without cable. Refer to ELECTRICAL CONNECTIONS DRAWING, below.

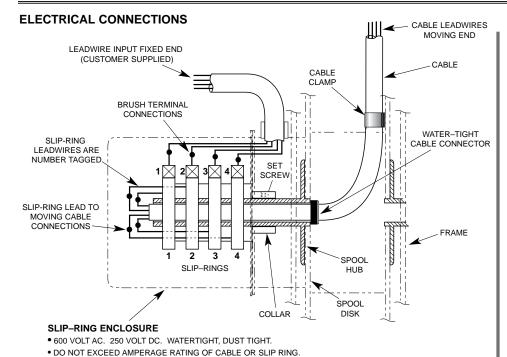
 Unspool new cable from shipping spool and lay out to eliminate twist.

NOTE: This step is not essential, but will aid in winding operation of the reel and prolong cable life.

- Feed one end of the cable through water-tight connector on the spool hub inside the spool and into the slip ring. (See drawing below).
 - NOTE: This may require that jacket of cable be stripped to allow conductors to pass through shaft.
- Connect individual conductors to appropriate rings on collector using crimp fitting or similar connection method.
- Tighten water-tight connector. Place cable clamp on cable and securely fasten to spool disk.
- 5. Wind the cable onto the reel spool by hand rotating spool in direction it turns free of spring tension.
- 6. Connect free end of cable to machine junction box.
- Pretension reel and complete installation as previously described.

COLLECTOR REPLACEMENT

- 1. Turn off all power to reel.
- 2. Remove collector cover and gasket.
- 3. Disconnect electric leads to and from collector.
- 4. Remove button plug from hole in side of housing. Insert long 1/8" Allen wrench through hole and loosen two set screws in collector locking collar Set screws are at 90° to one another..
- 5. Slide collector off shaft.
- 6. Install new collector by reversing above steps.



NOTE:

Wire size, wire connectors, connection sequence, and connection methods must comply with National Electrical code and Local Electrical ordinances. If in doubt, contact a local electrical contractor or electrical inspector.

COLOR SEQUENCE FOR TYPE SO CABLE

THREE CONDUCTOR CABLE

1 - BLACK

2 – WHITE

#3-GREEN (ground)

FOUR THRU TWELVE CONDUCTOR CABLE

1 - BLACK

2 - WHITE

3 - RED

4 – GREEN (ground)

5 – ORANGE

6 – BLUE

7 – WHITE W/ BLACK TRACER

8 – RED W/ BLACK TRACER

9 - GREEN W/ BLACK TRACER

#10 - ORANGE W/ BLACK TRACER

#11 - BLUE W/ BLACK TRACER

#12 - BLACK W/ WHITE TRACER

Gluden Pul A Hubbell Company

• NUMBER OF CIRCUITS MAY VARY FROM TWO (MINIMUM) TO 36 (MAXIMUM). FOUR CIRCUITS SHOWN.

GLEASON REEL CORP.

P.O. Box 26 • 600 South Clark St. Mayville, WI 53050–0026 Phone 920–387–4120 • Fax 920–387–4189

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